

# PATENT ABSTRACTS OF JAPAN

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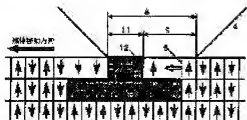
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## (54) MAGNETO-OPTICAL RECORDING MEDIUM, REPRODUCING DEVICE AND REPRODUCTION METHOD

(57)Abstract:

**PROBLEM TO BE SOLVED:** To attain the enlargement and reproduction of a magnetic domain with no repetitive reproduction, to reproduce a signal having a period below the diffraction limit of light without reducing the amplitude of the reproduced signal and to considerably increase recording density.

**SOLUTION:** First, second and third magnetic layers 1, 2, 3 are successively laminated. The 1st magnetic layer 1 comprises a perpendicularly magnetized film having a relatively smaller domain wall coercive force and a larger domain wall mobility at a temperature close to the reproduction temperature than the 3rd magnetic layer 3. When the Curie temperatures of the 1st, 2nd and 3rd magnetic layers 1, 2, 3 are represented by  $T_{c1}$ ,  $T_{c2}$  and  $T_{c3}$ , respectively, the relation of  $T_{c2} < T_{c1} < T_{c3}$  is established. Information is reproduced by heating the 1st magnetic layer 1 to the Curie temperature or above by irradiation with light beams.



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